







### **Technical data**

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Valve Size	2" [50]		
Fluid	chilled or hot water, up to 60% glycol		
Fluid Temp Range (water)	0250°F [-18120°C]		
Body Pressure Rating	400 psi		
Close-off pressure Δps	200 psi		
Flow characteristic	A-port equal percentage, B-port modified for constant common port flow		
Servicing	maintenance-free		
Flow Pattern	3-way Mixing/Diverting		
Leakage rate	0% for A – AB, <2.0% for B – AB		
Controllable flow range	75°		
Cv	29		
Body pressure rating note	400 psi		
Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv		
Valve body	Nickel-plated brass body		
Stem seal	EPDM (lubricated)		
Seat	PTFE		
Pipe connection	NPT female ends		
O-ring	EPDM (lubricated)		
Ball	stainless steel		
Non-Spring	ARB(X)		

# Safety notes



Suitable actuators

Materials

• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

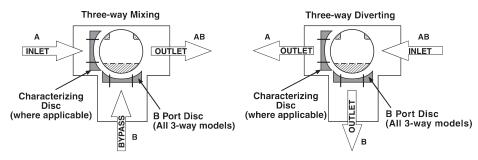
### **Product features**

### Application

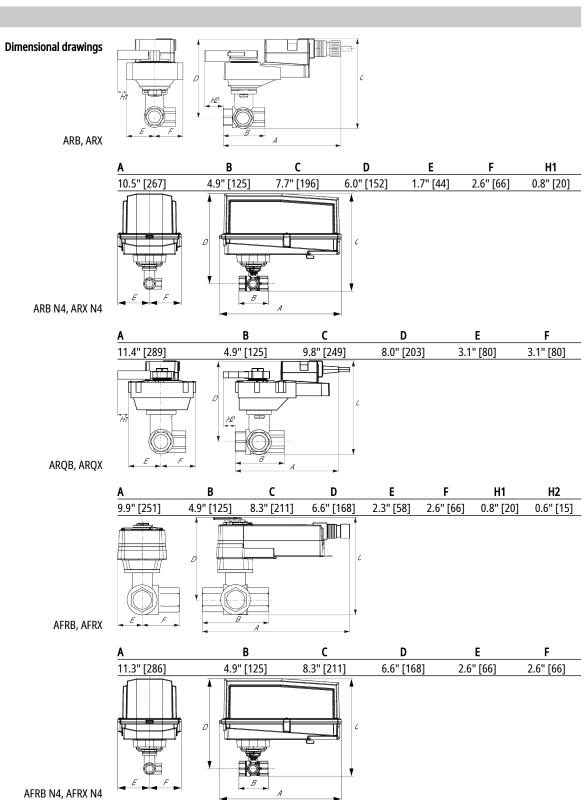
This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.



### Flow/Mounting details



### **Dimensions**





#### **Technical data sheet** B347 F В C D Ε 13.0" [330] 4.9" [125] 11.8" [300] 9.9" [251] 3.7" [95] 3.7" [95] C 11.3" [286] 4.9" [125] 8.3" [211] 6.6" [168] 2.6" [66] 2.6" [66] В C D H1 H2 8.3" [211] 6.6" [168] 9.9" [251] 4.9" [125] 2.3" [58] 2.6" [66] 0.8" [20] 0.6" [15]

AFRB N4, AFRX N4

ARQB, ARQX

A	В	С	D	E	F
13.0" [330]	4.9" [125]	11.8" [300]	9.9" [251]	3.7" [95]	3.7" [95]



**Technical data sheet** ARQX24-1









### **Technical data**

Electrical data	Nominal voltage	AC/DC 24 V		
	Nominal voltage frequency	50/60 Hz		
	Power consumption in operation	15 W		
	Power consumption in rest position	1.5 W		
	Transformer sizing	23 VA (class 2 power source)		
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector (10 ft [3 m] and 15 ft [5 m] available)		
	Overload Protection	electronic throughout 095° rotation		
Functional data	Input Impedance	600 Ω		
	Direction of motion motor	selectable with switch 0/1		
	Manual override	external push button		
	Angle of rotation	90°		
	Angle of rotation note	adjustable with mechanical stop		
	Running Time (Motor)	default 10 s, variable 15 s		
	Running time motor variable	15 s		
	Noise level, motor	52 dB(A)		
	Position indication	Mechanically, pluggable		
Safety data	Degree of protection IEC/EN	IP54		
	Degree of protection NEMA/UL	NEMA 2 UL Enclosure Type 2		
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35, EU; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC		
	Quality Standard	ISO 9001		
	Ambient temperature	-22122°F [-3050°C]		
	Storage temperature	-40176°F [-4080°C]		
	Ambient humidity	max. 95% r.H., non-condensing		
	Servicing	maintenance-free		

### **Electrical installation**



Weight

Weight

# > INSTALLATION NOTES

1 Provide overload protection and disconnect as required.

Actuators may be connected in parallel. Power consumption and input impedance must be observed.

2.9 lb [1.3 kg]

Actuators may also be powered by 24 VDC.

Actuators with plenum cable do not have numbers; use color codes instead.

Meets cULus requirements without the need of an electrical ground connection.



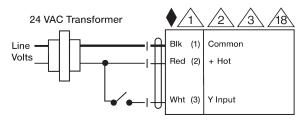
**Technical data sheet** ARQX24-1



# Marning! Live Electrical Components!

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.





On/Off